

Notice of Allowability

Application No.

10/782,601

Examiner

Quang N. Nguyen

Applicant(s)

NARAYANAN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 11/03/2006.
2. ☒ The allowed claim(s) is/are 1-6, 17, 18 and 25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


RUPAL DHARIA
SUPERVISORY PATENT EXAMINER

Allowable Subject Matter

1. Claims 1-6, 17-18 and 25 are allowable.

2. The following is an examiner's statement of reasons for allowance:

In interpreting the amended claims filed on 11/03/2006, in light of the specification, the Examiner finds the claimed invention to be patentably distinct from the prior art of records.

Tsirtsis (US 2004/0148428 A1) discloses a method and system for supporting Mobile IP management in a communications system, wherein a temporary local address or "care-of-address" is associated with a mobile node when it visits a foreign network corresponding to a visited domain. The care-of-address is registered back on the home network in a node referred to as the "home agent". The home agent intercepts packets destined to the home address of the mobile node and redirects the packets, by means of encapsulation and tunneling, towards the care-of-address associated with mobile node in the visited network for delivering the packets to the mobile node (**Tsirtsis, paragraphs [0004] and [0027-0028]**).

Ng (US 2006/0062214 A1) discloses a mobile router, being capable of changing its point of attachment within or between networks, intercepts a packet transmitted to one mobile node connected to a mobile router in a local mobile network, wherein to

avoid the ingress filtering, the mobile node fills its care-of-address in the source address of the packet and inserts its home-address as special information in the packet header. Upon interception of the packet by the mobile router, the mobile router checks whether its termination address matches its home-address or its care-of-address. In case where the termination address is a valid address in the local mobile network connected to the mobile router, the packet is forwarded to its destination (**Ng, paragraphs [0067-0068]**).

Leung (US 6,636,498) discloses a method and system for implementing a Mobile IP mobile router, wherein the mobile router moves to a new geographic location, it constructs a registration request and registers with its home agent via a care-of-address. Upon receiving the registration request, the home agent verifies authentication of the registration request and updates the appropriate routing tables. From the registration packet and information easily accessible to the home agent, the home agent registers the care-of-address from the network(s) serviced by the registered mobile router (**Leung, col. 5, lines 32-44**).

However, the prior art of records fail to teach or suggest individually or in combination that a mobility server and method for performing local routing between two mobile nodes, comprising: receiving a first care-of-address for a first mobile node; detecting a mobile router having knowledge of said first care-of-address, the mobile router supporting a mobile network and further being capable of changing its point of attachment within or between networks; determining, based upon at least one condition, that the mobile router is configured to perform local routing of at least one datagram from the first mobile node to a second mobile node that has a second care-of-address

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that is known to the mobile router, without the at least one datagram being tunneled through a mobility server; instructing said mobile router to perform local routing of at least one datagram between said first mobile node and the second mobile node; detecting at least one change in local routing for said first mobile node based on a new first care-of-address for said first mobile node; notifying said mobile router of said at least one change in local routing for said mobile node; detecting a second mobile router having knowledge of said new first care-of-address; determining, based upon at least one condition, that the second mobile router can perform local routing of at least one datagram for said first mobile node; and instructing said second mobile router to perform local routing of at least one datagram between said first mobile node and a third mobile node that has a third care-of-address that is known to said second mobile router as set forth in independent claim 1. Claims 1-6, 17-18 and 25 are allowed because of the combination of other limitations and the limitations listed above.


3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should clearly labeled "Comments on Examiner's Statement of Reasons for Allowance".

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Nguyen whose telephone number is (571) 272-3886.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's SPE, Rupal Dharia, can be reached at (571) 272-3880. The fax phone number for the organization is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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